

Content

Selection all Objects.....2

Commands.....2

Show all.....3

Weight3

Group Display Tool3

Update Group Name Plates4

Swap Mainpart.....4

Layout5

Modification Dialog Common.....6

Modification Dialog Holes.....7

Modification Dialog Facet.....8

Delete Modifications9

Object Based Search10

Filter for mirrored objects11

Color from Layer11

Color from part family11

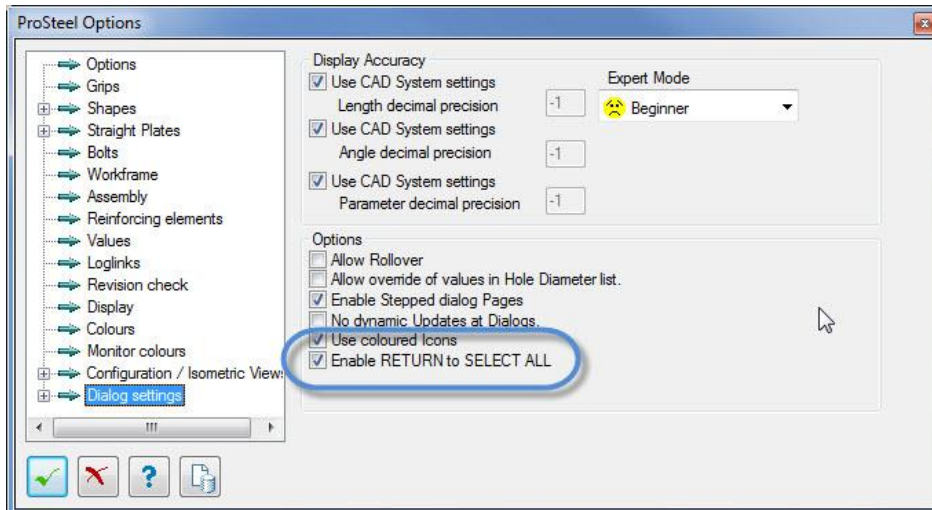
Export SAT Format12

Dialogs Standard Position13

Selection all Objects

The ProSteel options provide the setting:

Ermögliche RETURN für alles Auswählen



All ProSteelTools with object selection behave regarding this setting. Is it active, all objects will be selected by right click or by cancel. Is the option off, tools will be canceled.

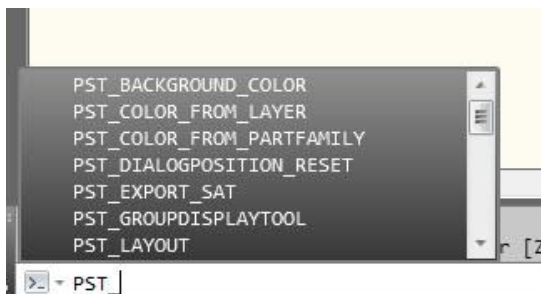
Commands

All commands can be run from the toolbox or from the command line.

The toolbox can be found:

C:\Program Files\Bentley\ProStructures\V8i_S5\AutoCAD 2013\Localised\English\Menus

All ProSteelTools start with PST_



After starting a new ProSteel session the first ProSteelTool command must be started from the toolbox because this will load the tools.

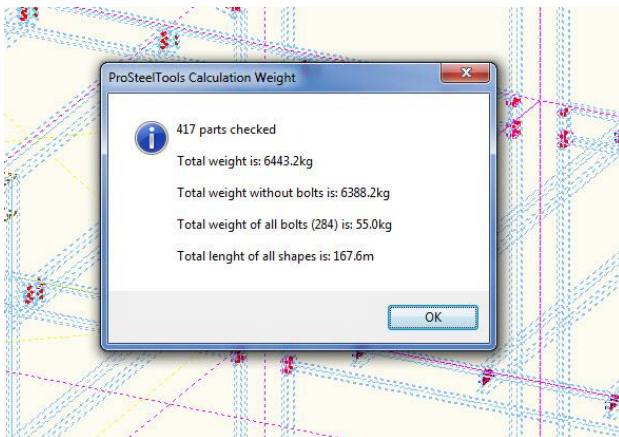
ProSteelTools

Show all

This tool sets all objects visible, switches on all display classes and area classes and unfreezes, unlocks all layers. All parts in the drawing should be visible then.

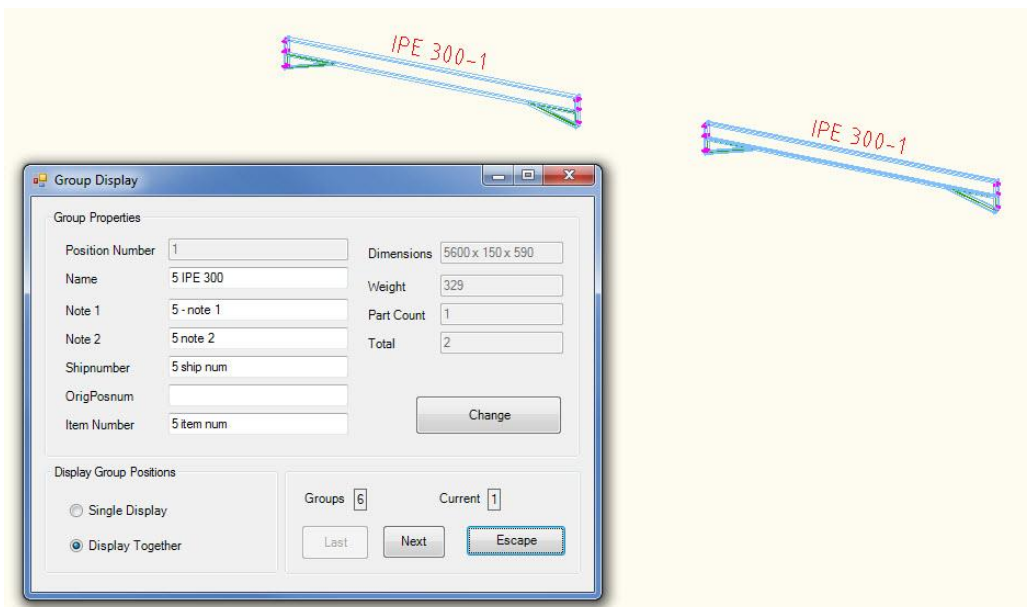
Weight

This tool calculates the weight of all selected parts. The weight of bolts will also be shown. The length of all selected shapes is interesting information if the selection has been filtered to one shape type.



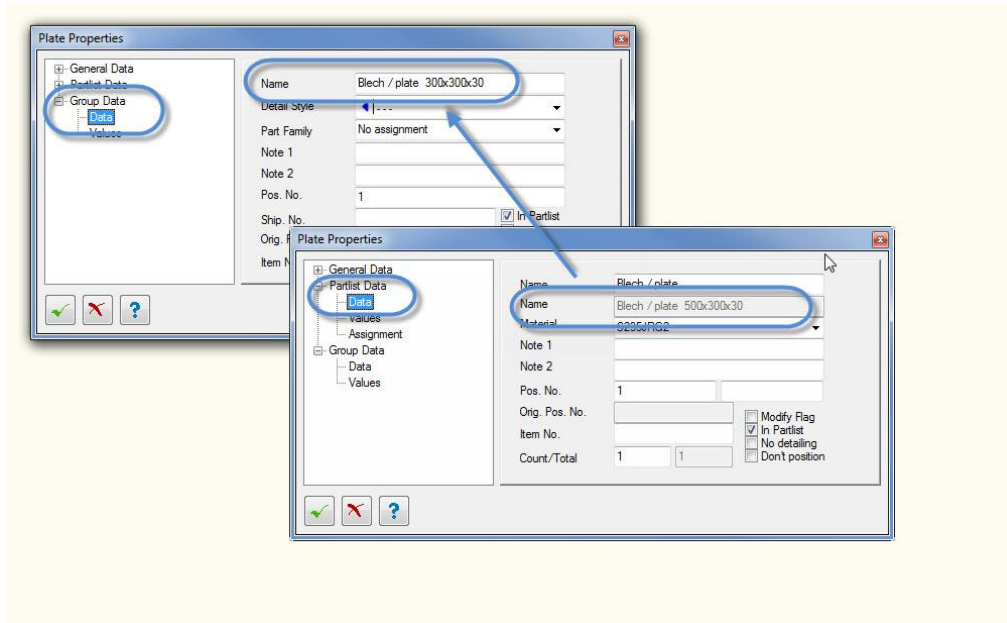
Group Display Tool

This feature hides all objects first and displays then the first group or group position. Now you can go step by step through all groups or group positions. At the same moment you get group information displayed, which can be changed for all displayed groups.



Update Group Name Plates

In case the main part of a group is a plate and the size of the plate will be changed, the group name will not change automatically. This tool updates the group name so that it matches the main part plate name again.



Swap Mainpart

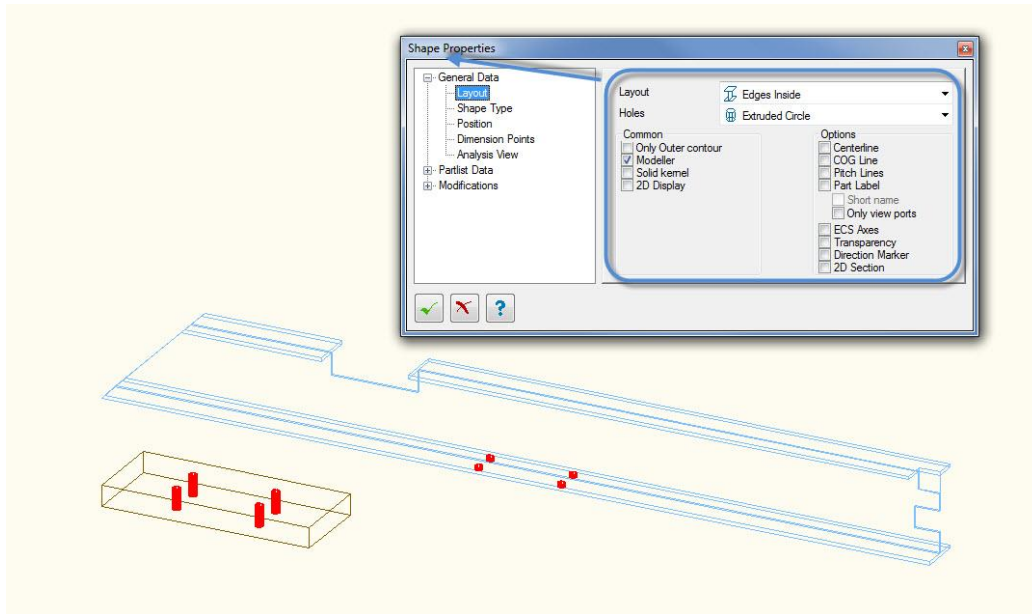
To swap the mainpart of a group it is normally necessary to resolve the group and recreate it. This tool does this in two steps.

- Select part of the group
- Select new main part

The new main part can only be a part out of the selected group.

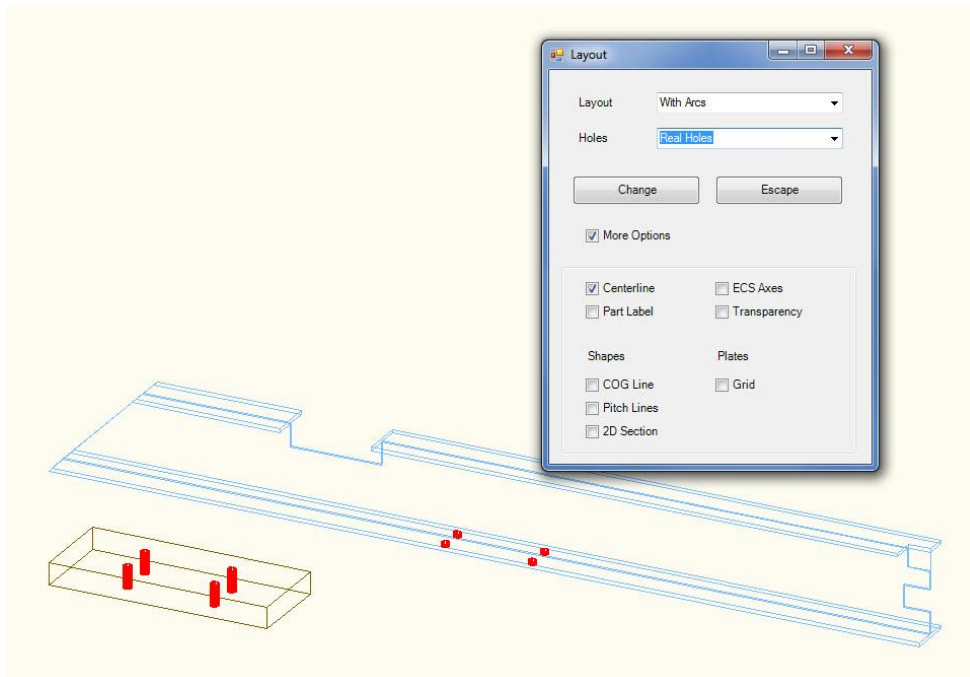
Layout

Layout and hole display can be changed using the PS Properties. But this change can only be done for each object type (shapes, arc shape, plates...).



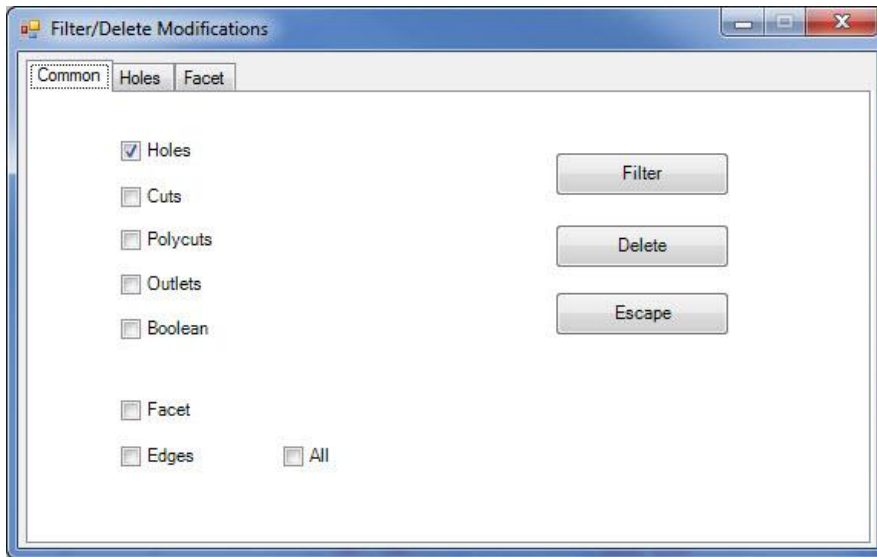
The tool PST_Layout can change this Layout options for all steel objects. Additionally a rebuild of the objects is done which might be useful sometimes.

There are more options from Select Series 5 on for displaying centerline, pitch lines, part label and so on



Modification Dialog Common

This dialog allows filtering a drawing regarding special or all modifications. This might be useful if NC files shall be created only for parts with modifications.



It is also possible to delete modifications. This is also possible by using the direct commands, see next article.

Note: Modifications that are created via Loglinks (endplate or baseplate connection) or structural objects (handrail or stair) can also be deleted but this can cause problems.

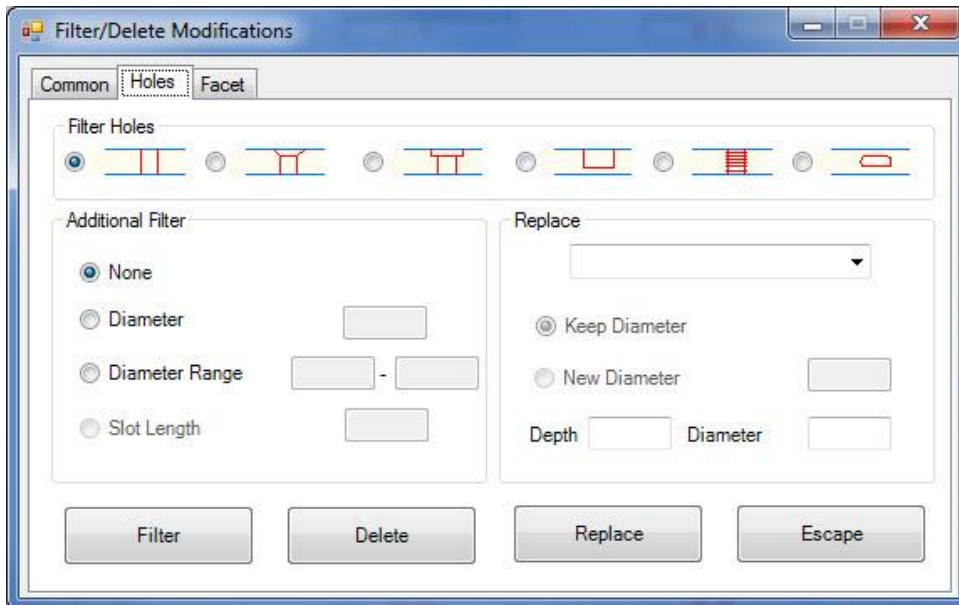
First case is that modifications reappear as soon as the logic is updated by changing a connection or moving objects.

Second case is that a connection is not working after deleting a modification, for example deleting a cut of an endplate connection would cause this problem.

ProSteelTools

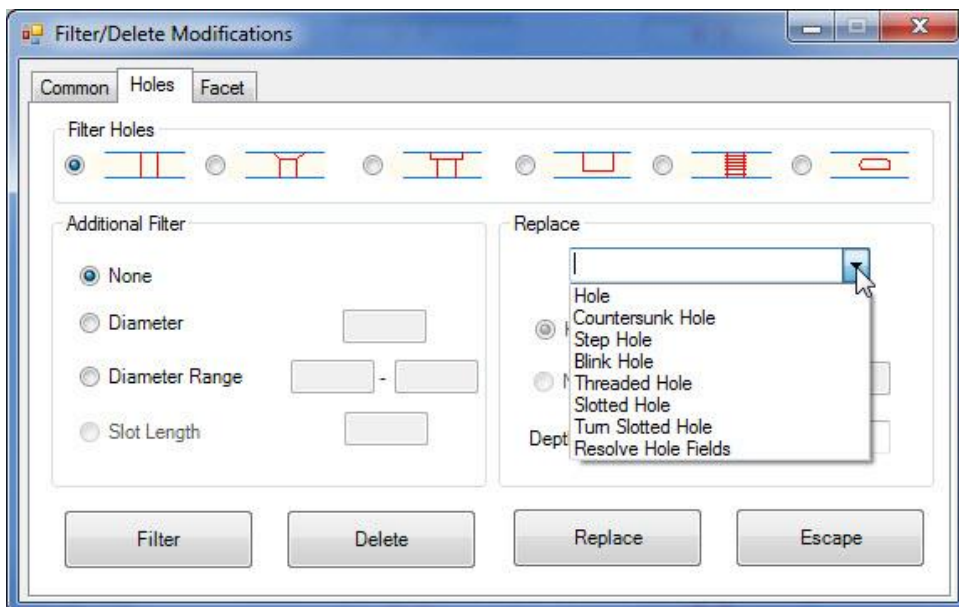
Modification Dialog Holes

On the tab Holes it is possible to filter a drawing for all hole types.



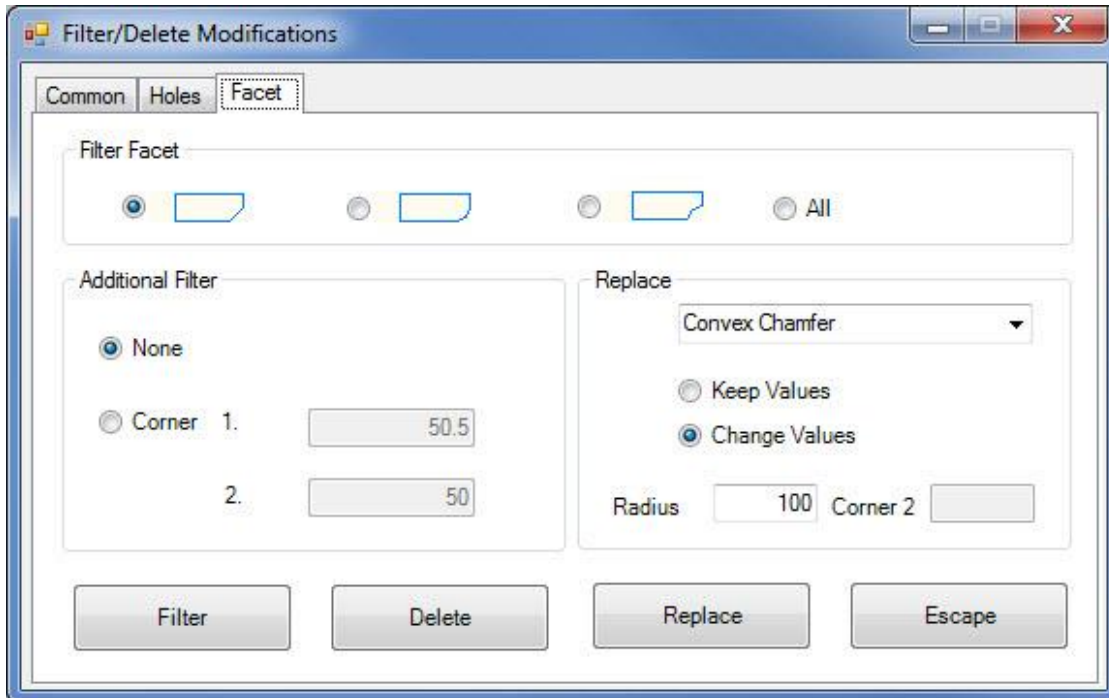
The upper filter defines the type of the hole. Additional filter can be used for diameter or range.

The replace feature includes the filter. (To turn a slotted hole the filter must also be on slotted holes.)



Modification Dialog Facet

Here is the same feature for facet modification like the one for holes.

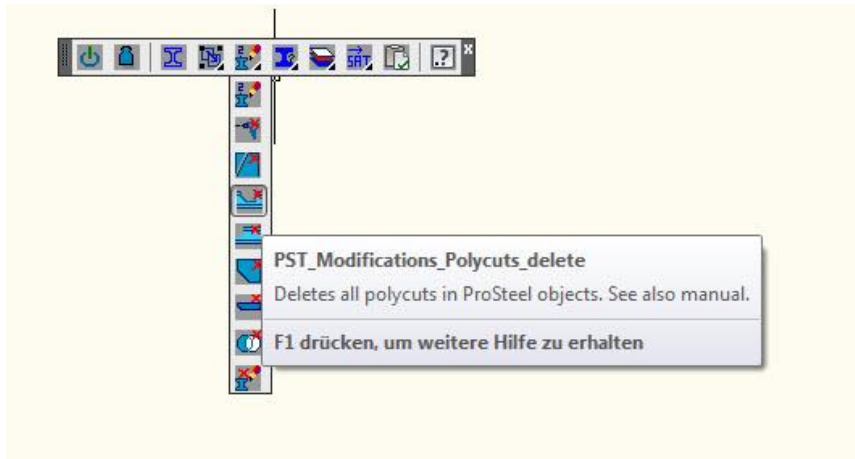


All types of facet can be searched, deleted or replaced by another facet modification.

ProSteelTools

Delete Modifications

The flyout of modifications has special tools to delete all or certain modifications.



Note: Modifications that are created via Loglinks (endplate or baseplate connection) or structural objects (handrail or stair) can also be deleted but this can cause problems.

First case is that modifications reappear as soon as the logic is updated by changing a connection or moving objects.

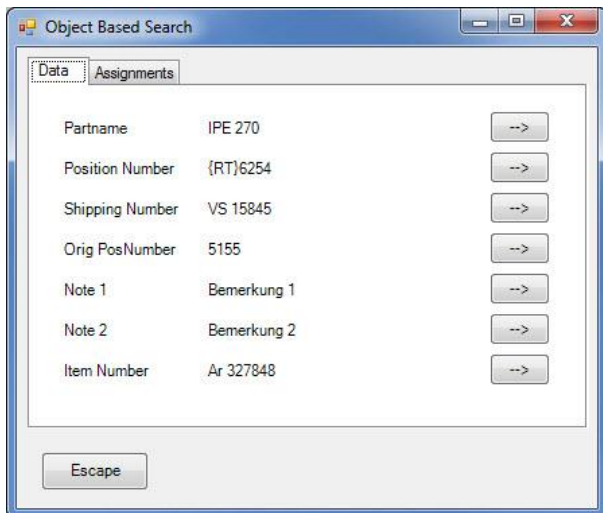
Second case is that a connection is not working after deleting a modification. For example deleting a cut of an endplate connection would cause this problem.

Object Based Search

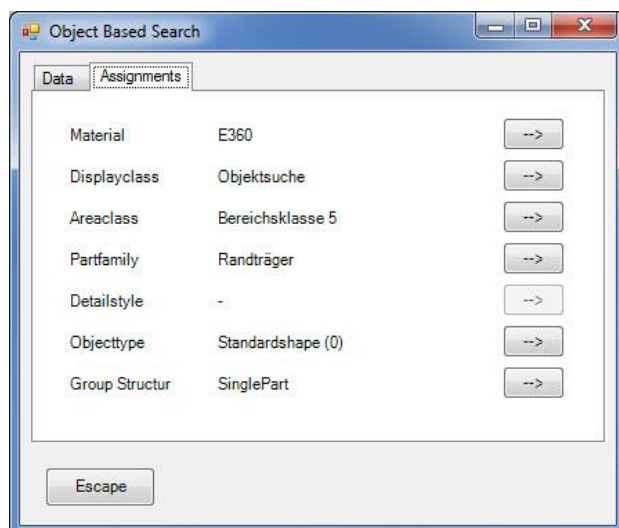
Often there are many steps necessary to find objects based on information like position number, part name or material assignment.

The tool object based search offers a quick way filtering the model based on different information.

Starting the feature a single object can be selected. Then information like in the screenshots below will be shown. The filter can be started by hitting an arrow button on the right hand side.



The tab assignments shows information like display class, material and group structure.



ProSteelTools

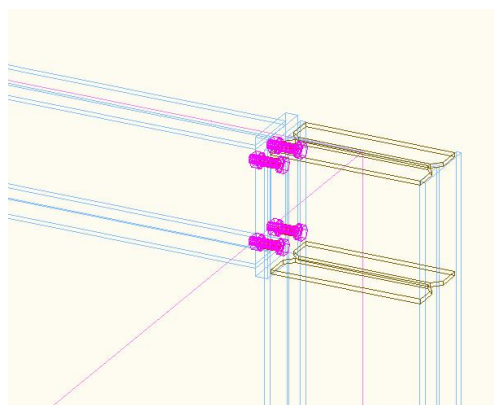
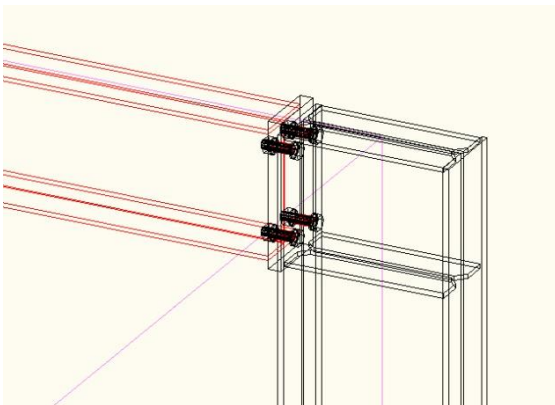
Filter for mirrored objects

The Autocad Command LIST can show if an object is mirrored but it is not possible to see that for more objects.

This tool is for searching the whole model for all mirrored objects. All other objects will be hidden.

Color from Layer

Sometimes it happens that a model is saved with temporary color settings from detail center express or other features. To assign the color -from layer- to all objects manually takes some time now.



The Tool PST_Color_from_Layer assigns color -from layer- to all objects, except for bolts (bolt style color).

Color from part family

Sometimes it happens that a model is saved with temporary color settings from detail center express or other features. To reassign the color from part families again is now very time consuming.

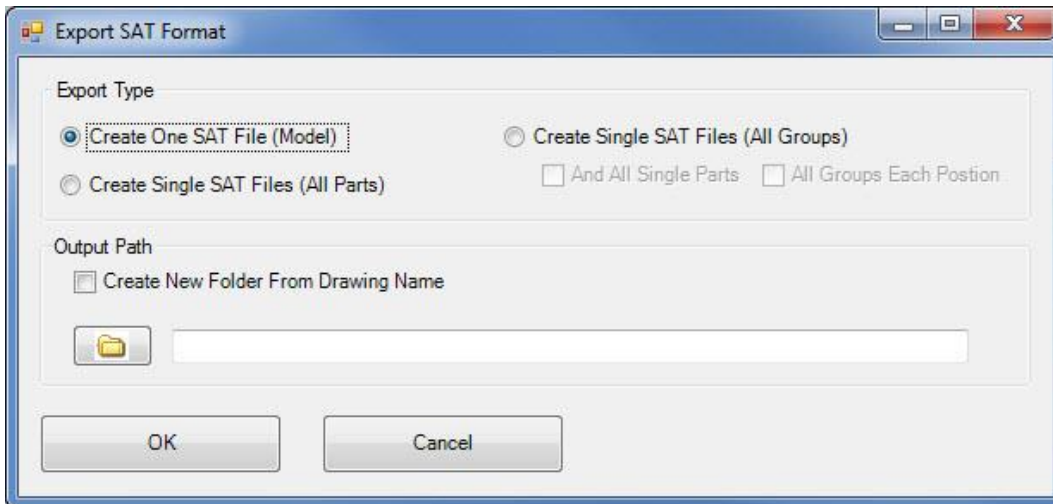


The tool PST_Color_from_Partfamily does the reassignment of all color settings from part families automatically. Objects without part family assignment will be set to -color from layer- and bolts get the bolt style color.

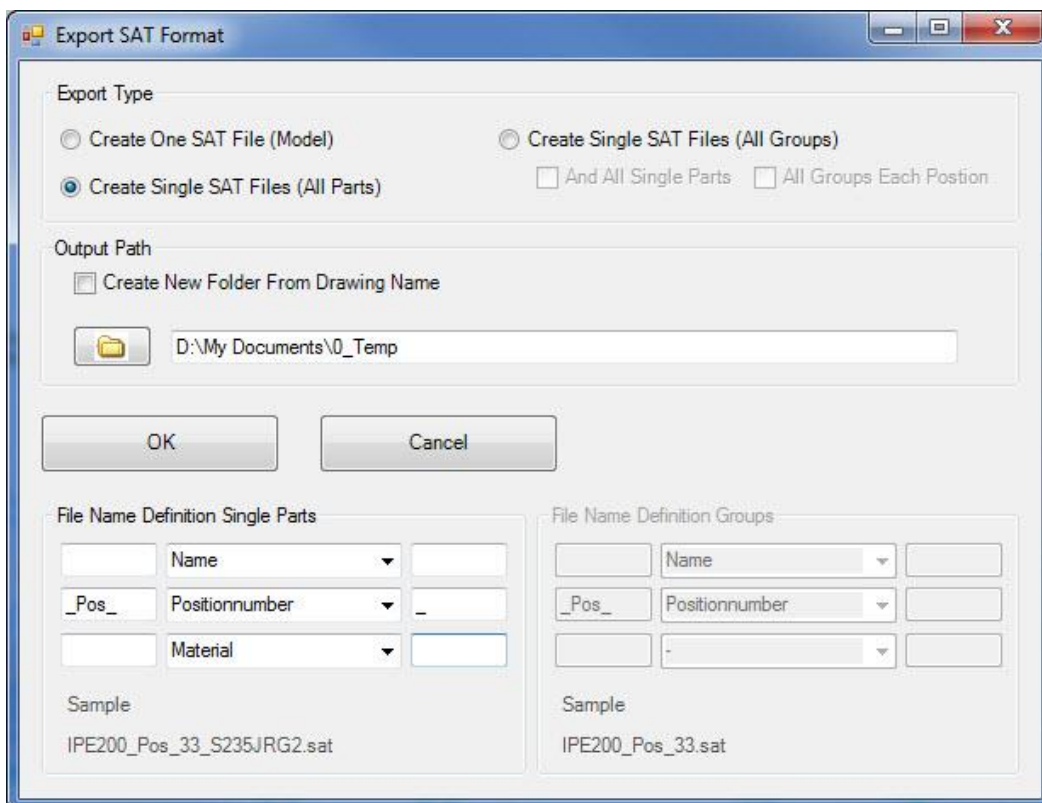
Export SAT Format

This export feature gives you the possibility to export

- the complete model
 - all single objects
 - all groups and as an option additional all single parts not belonging to a group as well as all groups each position
- as SAT Files



For the single file output, advanced export file naming options are available.



ProSteelTools

Dialogs Standard Position



Leaving a dialog box with ok in ProStructures saves the position of the box. This can cause problems in case it will be worked with one or two screens from time to time. This tool restores all standard positions of all dialog boxes in ProStructures including the ProSteelTools. (PST_DIALOGPOSITION_RESET)